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earnestly solicited.

Respectfully submitted,
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JHM/AVF/pmc

VERSION WITH MARKINGS TO SHOW CHANGES MADE

IN THE ABSTRACT OF THE DISCLOSURE

The Abstract of the Disclosure has been amended as follows:

--[If, in a] A recording medium on which a plurality of programs are collected in a plurality of groups and supervised in this grouped state, [a] wherein when an editing command [for editing,] such as [dividing/linking/erasing] dividing, linking, and erasing the predetermined programs or groups[,] recorded on the recording medium is executed, [the] management data is [to be] edited to perform the editing command. The [present] invention [contemplates to provide] provides a solution to meet this request by a recording medium, an editing method and an editing apparatus.--

IN THE CLAIMS

Claims 1-32 have been amended as follows:

--1. (Amended) A recording medium in which a plurality of programs are collected into a plurality of groups and are managed and recorded [in this form], comprising:

a program recording area in which [said] the programs are recorded;

a first management data recording area in which [the] first management data for supervising [the] program names of [said plural] the plurality of programs is recorded; and

a second management data recording area in which the names of the programs collected in [said] the plural groups

and [the] names of [said] the groups are correlated and are recorded as [the] second management data [along] with [the] separating information for separating the program names and the group names.

--2. (Amended) The recording medium according to claim 1, wherein the second management data recorded in [said] the second management data recording area [has] includes a plurality of [the] group information made up of [said] program numbers, [said] the group names, and the separating information [and], wherein [the respective group] information [are] corresponding to each of the plurality of groups is partitioned by [the] partitioning information.

--3. (Amended) The recording medium according to claim 1, wherein [the] a name [of a recording medium for] identifying [said] the recording medium is further recorded in [said] the second management data recording area.

--4. (Amended) An editing apparatus for editing a program recorded on a recording medium [including] that includes a program area for recording a plurality of programs [for recording a plurality of programs,] and a management area[, having] within which is recorded [therein the] first management data for managing [the] program names for [respective] the plurality of recorded programs [recorded in said program area,] and [the] second management data[, made up of the] including range information of program numbers making

up each of a plurality of groups into which the [plural] plurality of recorded programs [recorded in said program area] are collected, special codes partitioning [said] the groups [from one another,] and group names, comprising:

operating means for commanding [changes] a change in [the] a sequence of predetermined [ones of said plural] groups of the plurality of groups; and

editing means [which, in case changes in the sequence of predetermined ones of said plural groups are commanded by said operating means, edits the] for editing a correlation of [said] the range information [of program numbers making up each of a plurality of groups in said second management data] and [said] the group names to cause block movement of [said] the predetermined groups when the change is commanded by the operating means.

--5. (Amended) The editing apparatus according to claim 41 wherein

the program names in [said] the first management data are managed [in association with] corresponding to the program numbers of the [respective] plurality of programs, and [wherein

if a] when the change in the sequence of the predetermined groups [in said plural groups] is commanded by [said] the operating means[,] the correlation between the program numbers in [said] the first management data and the program numbers [are] is concomitantly edited.

--6. (Amended) An editing apparatus for editing a program recorded on a recording medium [including] that includes a program area for recording a plurality of programs [for recording a plurality of programs,] and a management area[, having] within which is recorded [therein the] first management data for managing [the] program names for [respective] the plurality of recorded programs [recorded in said program area,] and [the] second management data[, made up of the] including range information of program numbers making up each of a plurality of groups into which the [plural] plurality of recorded programs [recorded in said program area] are collected, special codes partitioning [said] the groups [from one another,] and group names, comprising:

operating means for commanding a division of a predetermined program of the plurality of programs and predetermined [ones of said plural] groups of the plurality of groups; and

editing means [which, in case division of a predetermined program of predetermined ones of said plural groups is commanded by said operating means, edits the] for editing a correlation of [said] the range information [of program numbers making up each of a plurality of groups in said second management data] and [said] the group names when the division is commanded by the operating means.

--7. (Amended) The editing apparatus according to claim 6, wherein the program names in [said] the first management data are managed in association with the program numbers of

each of the [respective] plurality of programs, and [wherein, if] when the division [of predetermined groups in said plural groups] is commanded by [said] the operating means[,] the correlation between the program numbers and the program names is concomitantly edited.

--8. (Amended) The editing apparatus according to claim 6, wherein

[said] the editing means further edits the range of the program [number] numbers forming a group [next] following the predetermined group containing the predetermined program commanded to be [split] divided.

--9. (Amended) An editing apparatus for editing a program recorded on a recording medium [including] that includes a program area for recording a plurality of programs [for recording a plurality of programs,] and a management area[, having] within which is recorded [therein the] first management data for managing [the] program names for [respective] the plurality of recorded programs [recorded in said program area,] and [the] second management data[, made up of the] including range information of program numbers making up each of a plurality of groups into which the [plural] plurality of recorded programs [recorded in said program area] are collected, special codes partitioning [said] the groups [from one another,] and group names, comprising:

operating means for commanding a linking of two of the programs [making up] in a predetermined group of [said plural]

the plurality of groups; and

editing means [which, in case linking of two of the programs making up a predetermined group of said plural groups is commanded by said operating means, edits the] for editing a correlation of [said] the range information [of program numbers making up each of a plurality of groups in said second management data] and [said] the group names when the linking is commanded by the operating means.

--10. (Amended) The editing apparatus according to claim 9, wherein the program names in [said] the first management data are managed [in association with] corresponding to the program numbers of the [respective] plurality of programs, and [wherein, if] when the linking [of two of the programs making up a predetermined group of said plural groups] is commanded by [said] the operating means, the correlation between the program numbers and the program names is concomitantly edited.

--11. (Amended) An editing apparatus for editing a program recorded on a recording medium [including] that includes a program area for recording a plurality of programs [for recording a plurality of programs,] and a management area[, having] within which is recorded [therein the] first management data for managing [the] program names for [respective] the plurality of programs [recorded in said program area,] and [the] second management data[, made up of the] including range information of program numbers making up each of a plurality of groups into which the [plural]

plurality of recorded programs [recorded in said program area] are collected, special codes partitioning [said] the groups [from one another,] and group names, comprising:

operating means for commanding a division of a predetermined group of [said plural] the plurality of groups into two groups; and

editing means [which, in case division of said predetermined group is commanded by said operating means, edits the] for editing a correlation of [said] the range information [of program numbers making up each of a plurality of groups in said second management data] and [said] the group names when the division is commanded by the operating means.

--12. (Amended) The editing apparatus according to claim 11, wherein

[if] when the division [of said predetermined group] is commanded by [said] the operating means, [the] a group name [accorded to said] of the predetermined group is [accorded] assigned to one of the two groups resulting from the division.

--13. (Amended) The editing apparatus according to claim 12, wherein

[if] when the division [of said predetermined group] is commanded by [said] the operating means, [the] a group name of [the] an other of the two groups resulting from the division is blank.

--14. (Amended) An editing apparatus for editing a program recorded on a recording medium [including] that includes a program area for recording a plurality of programs [for recording a plurality of programs,] and a management area[, having] within which is recorded [therein the] first management data for managing [the] program names for [respective] the plurality of recorded programs [recorded in said program area,] and [the] second management data[, made up of the] including range information of program numbers making up each of a plurality of groups into which the [plural] plurality of recorded programs [recorded in said program area] are collected, special codes partitioning [said] the groups [from one another,] and group names, comprising:

operating means for commanding a linking of predetermined ones] groups of [said plural] the plurality of groups; and

editing means [which, in case linking of predetermined ones of said plural groups is commanded by said operating means, edits the] for editing a correlation of [said] the range information [of program numbers making up each of a plurality of groups in said second management data] and [said] the group names to cause block movement of [said] the predetermined groups when the linking is commanded.

--15. (Amended) The editing apparatus according to claim 14, wherein

[if] when the linking [of said predetermined groups] is commanded by [said] the operating means, [the] a group name [accorded to] of a [forward one] first group of [said] the

predetermined groups is [accorded] assigned to the group resulting from the linking.

--16. (Amended) The editing apparatus according to claim 14, wherein

[if] when the linking [of said predetermined group] is commanded by [said] the operating means, [the] a group name [accorded to] of a [backward one] last group of [said] the predetermined groups is [accorded] assigned to the group resulting from the linking.

--17. (Amended) The editing apparatus according to claim [11] 14, wherein

[if] when the linking [of said predetermined groups] is commanded by [said] the operating means, [the] a group name [accorded to] of a [forward one] first group of [said] the predetermined groups and [the] a group name [accorded to] of a [backward one] last group of [said] the predetermined groups are linked and [accorded] assigned to the group resulting from the linking.

--18. (Amended) An editing apparatus for editing a program recorded on a recording medium [including] that includes a program area for recording a plurality of programs [for recording a plurality of programs,] and a management area[, having] within which is recorded [therein the] first management data for managing [the] program names for [respective] the plurality of recorded programs [recorded in

said program area,] and [the] second management data[, made up of the] including range information of program numbers making up each of a plurality of groups into which the [plural] plurality of recorded programs [recorded in said program area] are collected, special codes partitioning [said] the groups [from one another,] and group names, comprising:

operating means for commanding a block erasure of predetermined [ones] groups of [said plural] the plurality of groups; and

editing means [which, in case block erasure of predetermined ones of said plural groups is commanded by said operating means, edits the] for editing a correlation of [said] the range information [of program numbers making up each of a plurality of groups in said second management data] and [said] the group when the block erasure is commanded.

--19. (Amended) An editing method for editing a program recorded on a recording medium [including] that includes a program area for recording a plurality of programs [for recording a plurality of programs,] and a management area[, having] within which is recorded [therein the] first management data for managing [the] program names for [respective] the plurality of recorded programs [recorded in said program area,] and [the] second management data[, made up of the] including range information of program numbers making up each of a plurality of groups into which the [plural] plurality of recorded programs [recorded in said program area] are collected, special codes partitioning [said] the groups

[from one another,] and group names, comprising the steps of:

[operating step for] commanding [changes] a change in
[the] a sequence of predetermined [ones] groups of [said
plural] the plurality of groups; and

editing [step which, in case changes in the sequence of
predetermined ones of said plural groups are commanded by said
operating step, edits the] a correlation of [said] the range
information [of program numbers making up each of a plurality
of groups in said second management data] and [said] the group
names to cause block movement of [said] the predetermined
groups when the change is commanded.

--20. (Amended) The editing method according to claim
19, wherein

the program names in [said] the first management data are
managed [in association with] corresponding to the program
numbers of the [respective] plurality of programs; and
[wherein]

[if a] when the change [in the sequence of predetermined
groups in said plural groups] is commanded [by said operating
step], the correlation between the program numbers in [said]
the first management data and the program numbers [are] is
concomitantly edited.

--21. (Amended) An editing method for editing a program
recorded on a recording medium [including] that includes a
program area for recording a plurality of programs [for
recording a plurality of programs,] and a management area[,

having] within which is recorded [therein the] first management data for managing [the] program names for [respective] the plurality of recorded programs [recorded in said program area,] and [the] second management data[, made up of the] including range information of program numbers making up each of a plurality of groups into which the [plural] plurality of recorded programs [recorded in said program area] are collected, special codes partitioning [said] the groups [from one another,] and group names, comprising the steps of:

[operating step for] commanding a division of a predetermined program of predetermined [ones] groups of [said plural] the plurality of groups; and

editing [step which, in case division of a predetermined program of predetermined ones of said plural groups is commanded by said operating step, edits the] a correlation of [said] the range information [of program numbers making up each of a plurality of groups in said second management data] and [said] the group names when the division is commanded.

--22. (Amended) The editing method according to claim 21, wherein the program names in [said] the first management data are managed [in association with] corresponding to the program numbers of the [respective] plurality of programs, and [wherein, if division of predetermined groups in said plural groups is commanded by said operating step,] the correlation between the program numbers and the program names is concomitantly edited when the division is commanded.

--23. (Amended) An editing method for editing a program recorded on a recording medium [including] that includes a program area for recording a plurality of programs [for recording a plurality of programs,] and a management area[, having] within which is recorded [therein the] first management data for managing [the] program names for [respective] the plurality of recorded programs [recorded in said program area,] and [the] second management data[, made up of the] including range information of program numbers making up each of a plurality of groups into which the [plural] plurality of recorded programs [recorded in said program area] are collected, special codes partitioning [said] the groups [from one another,] and group names, comprising the steps of:

[operating step for] commanding a linking of two of the programs making up a predetermined group of [said plural] the plurality of groups; and

editing [step which, in case linking of two of the programs making up a predetermined group of said plural groups is commanded by said operating step, edits the] a correlation of [said] the range information [of program numbers making up each of a plurality of groups in said second management data] and [said] the group names when the linking is commanded.

--24. (Amended) The editing method according to claim 23, wherein the program names in [said] the first management data are managed [in association with] corresponding to the program numbers of the [respective] plurality of programs, and

[wherein, if linking of two of the programs making up a predetermined group of said plural groups is commanded by said operating step,] the correlation between the program numbers and the program names is concomitantly edited when the linking is commanded.

--25. (Amended) An editing method for editing a program recorded on a recording medium [including] that includes a program area for recording a plurality of programs [for recording a plurality of programs,] and a management area[, having] within which is recorded [therein the] first management data for managing [the] program names for [respective] the plurality of recorded programs [recorded in said program area,] and [the] second management data[, made up of the] including range information of program numbers making up each of a plurality of groups into which the [plural] plurality of recorded programs [recorded in said program area] are collected, special codes partitioning [said] the groups [from one another,] and group names, comprising the steps of:

[operating step for] commanding division of a predetermined group of [said plural] the plurality of groups into two groups; and

editing [step which, in case division of said predetermined group is commanded by said operating step, edits the] a correlation of [said] the range information [of program numbers making up each of a plurality of groups in said second management data] and [said] the group names when the division is commanded.

--26. (Amended) The editing method according to claim
25, wherein

[if] when the division [of said predetermined group] is commanded [by said operating step], [the] a group name [accorded to said] of the predetermined group is [accorded] assigned to one of the two groups resulting from the division.

--27. (Amended) The editing method according to claim
25, wherein

[if] when the division [of said predetermined group] is commanded [by said operating step], [the] a group name of [the] an other of the two groups resulting from the division is blank.

--28. (Amended) An editing method for editing a program recorded on a recording medium [including] that includes a program area for recording a plurality of programs [for recording a plurality of programs,] and a management area[, having] within which is recorded [therein the] first management data for managing [the] program names for [respective] the plurality of programs [recorded in said program area,] and [the] second management data[, made up of the] including range information of program numbers making up each of a plurality of groups into which the [plural] plurality of recorded programs [recorded in said program area] are collected, special codes partitioning [said] the groups [from one another,] and group names, comprising the steps of:

[operating step for] commanding linking of predetermined ones] groups of [said plural] the plurality of groups; and

editing [step which, in case linking of predetermined ones of said plural groups is commanded by said operating step, edits the] a correlation of [said] the range information [of program numbers making up each of a plurality of groups in said second management data] and [said] the group names to cause block movement of [said] the predetermined groups when the linking is commanded.

--29. (Amended) The editing method according to claim 28₊ wherein

[if] when the linking [of said predetermined groups] is commanded [by said operating step], [the] a group name [accorded to] of a [forward one] first group of [said] the predetermined groups is [accorded] assigned to the group resulting from the linking.

--30. (Amended) The editing method according to claim 28₊ wherein

[if] when the linking [of said predetermined group] is commanded [by said operating step], [the] a group name [accorded to] of a [backward one] last group of [said] the predetermined groups is [accorded] assigned to the group resulting from the linking.

--31. (Amended) The editing method according to claim 28₊ wherein

[if] when the linking [of said predetermined groups] is commanded [by said operating step], [the] a group name [accorded to] of a [forward one] first group of [said] the predetermined groups and [the] a group name [accorded to] of a [backward one] last group of [said] the predetermined groups are linked and [accorded] assigned to the group resulting from the linking.

--32. (Amended) An editing method for editing a program recorded on a recording medium [including] that includes a program area for recording a plurality of programs [for recording a plurality of programs,] and a management area[, having] within which is recorded [therein the] first management data for managing [the] program names for [respective] the plurality of recorded programs [recorded in said program area,] and [the] second management data[, made up of the] including range information of program numbers making up each of a plurality of groups into which the [plural] plurality of recorded programs [recorded in said program area] are collected, special codes partitioning [said] the groups [from one another,] and group names, comprising the steps of: [operating step for] commanding a block erasure of predetermined [ones] groups of [said plural] the plurality of groups; and
editing [step which, in case block erasure of predetermined ones of said plural groups is commanded by said operating step, edits the] a correlation of [said] the range information [of program numbers making up each of a plurality

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of groups in said second, management data] and [said group] the
groups when the block erasure is commanded.--